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ANNALS OF THE NEW YORK ACADEMY OF SCIENCES

VOLUME 84, ART. 1, PAGES 1-27

Editor in Chief

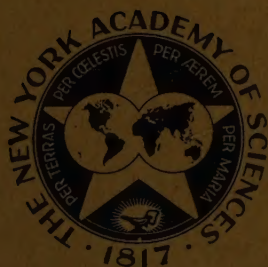
OTTO V. ST. WHITELOCK

THE ORGANIZATION OF THE NEW YORK
ACADEMY OF SCIENCES

Its Incorporation, Its Amended Charter, Its Constitution
and Bylaws

Revised to November 22, 1959

Emerson Day (Recording Secretary)



NEW YORK

PUBLISHED BY THE ACADEMY

January 22, 1960

THE NEW YORK ACADEMY OF SCIENCES

(Founded in 1817)

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The Sections and the Divisions hold meetings regularly, one evening each month, during the academic year, October to May, inclusive. All meetings are held at the building of The New York Academy of Sciences, 2 East Sixty-third Street, New York 21, New York.

Conferences are also held at irregular intervals at times announced by special programs.

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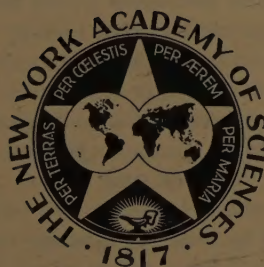
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THE ORGANIZATION OF THE NEW YORK ACADEMY OF SCIENCES

THE ORIGINAL CHARTER

AN ACT TO INCORPORATE THE LYCEUM OF NATURAL HISTORY IN THE CITY OF NEW YORK

Passed April 20, 1818

Whereas, The members of the Lyceum of Natural History have petitioned for an act of incorporation, and the Legislature, impressed with the importance of the study of Natural History, as connected with the wants, the comforts and the happiness of mankind, and conceiving it their duty to encourage all laudable attempts to promote the progress of science in this State—therefore,

1. *Be it enacted by the People of the State of New York represented in Senate and Assembly*, That Samuel L. Mitchill, Casper W. Eddy, Frederick C. Schaeffer, Nathaniel Paulding, William Cooper, Benjamin P. Kissam, John Torrey, William Cumberland, D'Jurco V. Knevels, James Clements and James Pierce, and such other persons as now are, and may from time to time become members, shall be, and hereby are constituted a body corporate and politic, by the name of **Lyceum of Natural History in the City of New York**, and that by that name they shall have perpetual succession, and shall be persons capable of suing and being sued, pleaded and being impleaded, answering and being answered unto, defending and being defended, in all courts and places whatsoever; and may have a common seal, with the power to alter the same from time to time; and shall be capable of purchasing, taking, holding, and enjoying to them and their successors, any real estate in fee simple or otherwise, and any goods, chattels, and personal estate, and of selling, leasing, or otherwise disposing of said real or personal estate, or any part thereof, at their will and pleasure: *Provided always*, that the clear annual value or income of such real or personal estate shall not exceed the sum of five thousand dollars: *Provided*, however, that the funds of the said Corporation shall be used and appropriated to the promotion of the objects stated in the preamble to this act, and those only.

2. *And be it further enacted*, That the said Society shall from time to time, forever hereafter, have power to make, constitute, ordain, and establish such bylaws and regulations as they shall judge proper, for the election of their officers; for prescribing their respective functions, and the mode of discharging the same; for the admission of new members; for the government of the officers and members thereof; for collecting annual contributions from the members towards the funds thereof; for regulating the times and places of meeting of the said Society; for suspending or

expelling such members as shall neglect or refuse to comply with the bylaws or regulations, and for the managing or directing the affairs and concerns of the said Society: *Provided* such bylaws and regulations be not repugnant to the Constitution and laws of this State or of the United States.

3. *And be it further enacted*, That the officers of the said Society shall consist of a President and two Vice-Presidents, a Corresponding Secretary, a Recording Secretary, a Treasurer, and five Curators, and such other officers as the Society may judge necessary; who shall be annually chosen, and who shall continue in office for one year, or until others be elected in their stead; that if the annual election shall not be held at any of the days for that purpose appointed, it shall be lawful to make such election at any other day; and that five members of the said Society, assembling at the place and time designated for that purpose by any bylaw or regulation of the Society, shall constitute a legal meeting thereof.

4. *And be it further enacted*, That Samuel L. Mitchill shall be the President; Casper W. Eddy the First Vice-President; Frederick C. Schaeffer the Second Vice-President; Nathaniel Paulding, Corresponding Secretary; William Cooper, Recording Secretary; Benjamin P. Kissam, Treasurer, and John Torrey, William Cumberland, D'Jurco V. Knevels, James Clements, and James Pierce, Curators; severally to be the first officers of the said Corporation, who shall hold their respective offices until the twenty-third day of February next, and until others shall be chosen in their places.

5. *And be it further enacted*, That the present Constitution of the said Association shall, after passing of this Act, continue to be the Constitution thereof; and that no alteration shall be made therein, unless by a vote to that effect of three-fourths of the resident members, and upon the request in writing of one-third of such resident members, and submitted at least one month before any vote shall be taken thereupon.

State of New York, Secretary's Office.

I certify the preceding to be a true copy of an original Act of the Legislature of this State, on file in this Office.

Albany, April 29, 1818.

Arch'd Campbell,
Dep. Sec'y.

ORDER OF COURT

ORDER OF THE SUPREME COURT OF THE STATE OF NEW YORK
TO CHANGE THE NAME OF

THE LYCEUM OF NATURAL HISTORY IN THE CITY
OF NEW YORK

TO

THE NEW YORK ACADEMY OF SCIENCES

Whereas, in pursuance of the vote and proceedings of this Corporation to change the corporate name thereof from "The Lyceum of Natural History in the City of New York" to "The New York Academy of Sciences," which vote and proceedings appear to record, an application has been made in behalf of said Corporation to the Supreme Court of the State of New York to legalize and authorize such change, according to the statute in such case provided, by Chittenden & Hubbard, acting as the attorneys of the Corporation, and the said Supreme Court, on the 5th day of January, 1876, made the following order upon such application in the premises, viz:

At a special term of the Supreme Court of the State of New York, held at the Chambers thereof, in the County Court House, in the City of New York, the 5th day of January, 1876:

Present--Hon. Geo. C. Barrett, *Justice*.

In the matter of the application of the Lyceum of Natural History in the City of New York to authorize it to assume the corporate name of The New York Academy of Sciences.

On reading and filing the petition of The Lyceum of Natural History in the City of New York, duly verified by John S. Newberry, the President and chief officer of said Corporation, to authorize it to assume the corporate name of The New York Academy of Sciences, duly setting forth the grounds of said application, and on reading and filing the affidavit of Geo. W. Quackenbush, showing that notice of such application had been duly published for six weeks in the State paper, to wit, *The Albany Evening Journal*, and the affidavit of David S. Owen, showing that notice of such application has also been duly published in the proper newspaper of the County of New York, in which county said Corporation had its business office, to wit, in *The Daily Register*, by which it appears to my satisfaction that such notice has been so published, and on reading and filing the affidavits of Robert H. Browne and J. S. Newberry, thereunto annexed, by which it appears to my satisfaction that the application

is made in pursuance of a resolution of the managers of said Corporation to that end named, and there appearing to me to be no reasonable objection to said Corporation to changing its name as prayed in said petition: Now on motion of Grosvenor S. Hubbard, of Counsel for Petitioner, it is

Ordered, That The Lyceum of Natural History in the City of New York be and is hereby authorized to assume the corporate name of The New York Academy of Sciences.

Indorsed: Filed January 5, 1876,

A copy.

Wm. Walsh, *Clerk*.

*Resolution of the Academy accepting the order of the Court, passed
February 21, 1876*

And whereas, The order hath been published as therein required, and all the proceedings necessary to carry out the same have been had, Therefore:

Resolved, That the foregoing order be and the same is hereby accepted and adopted by this Corporation, and that in conformity therewith the corporate name thereof, from and after the adoption of the vote and resolution herein above referred to, be and the same is hereby declared to be THE NEW YORK ACADEMY OF SCIENCES.

AMENDED CHARTER

MARCH 19, 1902

CHAPTER 181 OF THE LAWS OF 1902

An Act to amend chapter one hundred and ninety-seven of the laws of eighteen hundred and eighteen, entitled "An act to incorporate The Lyceum of Natural History in the City of New York," a Corporation now known as The New York Academy of Sciences and to extend the powers of said Corporation.

(Became a law March 19, 1902, with the approval of the Governor. Passed, three-fifths being present.)

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. The Corporation incorporated by chapter one hundred and ninety-seven of the laws of eighteen hundred and eighteen, entitled "An act to incorporate The Lyceum of Natural History in the City of New York," and formerly known by that name, but now known as The New York Academy of Sciences through change of name pursuant to order made by the Supreme Court at the city and county of New York, on January fifth, eighteen hundred and seventy-six, is hereby authorized and empowered to raise money for, and to erect and maintain, a building in the City of New York for its use, and in which also at its option other scientific societies may be admitted and have their headquarters upon such terms as said Corporation may make with them, portions of which building may be also rented out by said Corporation for any lawful uses for the purposes of

obtaining income for the maintenance of such building and for the promotion of the objects of the Corporation; to establish, own, equip, and administer a public library, and a museum having especial reference to scientific subjects; to publish communications, transactions, scientific works, and periodicals; to give scientific instruction by lectures or otherwise; to encourage the advancement of scientific research and discovery, by gifts of money, prizes, or other assistance thereto. The building, or rooms, of said Corporation in the City of New York used exclusively for library or scientific purposes shall be subject to the provisions and be entitled to the benefits of subdivision seven of section four of chapter nine hundred and eight of the laws of eighteen hundred and ninety-six, as amended.

Section II. The said Corporation shall from time to time forever hereafter have power to make, constitute, ordain, and establish such bylaws and regulations as it shall judge proper for the election of its officers; for prescribing their respective functions, and the mode of discharging the same; for the admission of new members; for the government of officers and members thereof; for collecting dues and contributions towards the funds thereof; for regulating the times and places of meeting of said Corporation; for suspending or expelling such members as shall neglect or refuse to comply with the bylaws or regulations, and for managing or directing the affairs or concerns of the said Corporation: and may from time to time alter or modify its constitution, bylaws, rules, and regulations.

Section III. The officers of the said Corporation shall consist of a president and two or more vice-presidents, a corresponding secretary, a recording secretary, a treasurer, and such other officers as the Corporation may judge necessary; who shall be chosen in the manner and for the terms prescribed by the constitution of the said Corporation.

Section IV. The present constitution of the said Corporation shall, after the passage of this act, continue to be the constitution thereof until amended as herein provided. Such constitution as may be adopted by a vote of not less than three-quarters of such resident members and fellows of the said New York Academy of Sciences as shall be present at a meeting thereof, called by the Recording Secretary for that purpose, within forty days after the passage of this act, by written notice duly mailed, postage prepaid, and addressed to each fellow and resident member at least ten days before such meeting, at his last known place of residence, with street number when known, which meeting shall be held within three months after the passage of this act, shall be thereafter the constitution of the said New York Academy of Sciences, subject to alteration or amendment in the manner provided by such constitution.

Section V. The said Corporation shall have power to consolidate, to unite, to co-operate, or to ally itself with any other society or association in the City of New York organized for the promotion of the knowledge or the study of any science, or of research therein, and for this purpose to

receive, hold and administer real and personal property for the uses of such consolidation, union, co-operation, or alliance subject to such terms and regulations as may be agreed upon with such associations or societies.

Section VI. This act shall take effect immediately.

STATE OF NEW YORK,

OFFICE OF THE SECRETARY OF STATE.

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and the whole of said original law.

Given under my hand and the seal of office of the Secretary of State, at the city of Albany, this eighth day of April, in the year one thousand nine hundred and two.

JOHN T. McDONOUGH,
Secretary of State.

CONSTITUTION OF THE NEW YORK ACADEMY OF SCIENCES

Adopted, October 19, 1959

Article I

NAME AND OBJECTS

SECTION 1. This Corporation shall be known by the name of The New York Academy of Sciences.

SECTION 2. The center of its activities shall be in the City of New York.

SECTION 3. Its objects shall be to advance scientific research and discovery; to provide a forum for the presentation and discussion of scientific problems; to publish and distribute the results of research, and to interpret them for the promotion of the common welfare.

Article II

MEMBERSHIP

SECTION 1. The Academy shall consist of nine classes of Members, namely: Gold Card Members, Benefactors, Patrons, Life Members, Sustaining Members, Annual Active Members, Student Members, Honorary Life Members, and Corporation Members.

SECTION 2. All Members, except Gold Card, Student, Honorary Life, and Corporation, shall be qualified to vote and to hold office, and shall be deemed "Active Members."

SECTION 3. Members of the Academy, deemed outstanding in scientific attainment, may be chosen to be, and become Fellows of the Academy.

SECTION 4. Honorary Life Members shall be chosen from among foreign scientists who have attained distinction in some branch of science. The number of Honorary Life Members shall not exceed one hundred.

SECTION 5. Gold Card Members shall be limited to ten Members, and shall be chosen from among prominent persons in recognition of their distinguished achievements in fostering the development of science.

Article III

BOARD OF TRUSTEES

SECTION 1. The Board of Trustees shall consist of not more than twelve persons, divided into four classes of equal size and, *ex officio*, the President and the immediate two Past Presidents of the Academy. The Executive Director shall sit on the Board of Trustees and serve as its Secretary but without vote. Each class of elected Trustees

shall hold office for four years. The term of office of one class shall expire each year and its successor class shall be elected by the Membership of the Academy in the same manner as provided for the election of Officers and other Members of the Scientific Council in Article VI, Sections 1 and 2. The Members of the Board of Trustees may be reelected without limitation.

SECTION 2. The financial and business affairs of the Academy shall be managed by the Board of Trustees as Directors of the Corporation.

SECTION 3. At its first meeting each year the Board of Trustees shall appoint one of its Members to serve as its Chairman. At the same time, it shall also appoint from its membership a Treasurer of the Academy.

SECTION 4. At the first meeting held each year the Board of Trustees shall appoint a nominating Committee of three of its members who shall propose to the Board of Trustees candidates for that class of Trustees to be elected that year who upon approval of nomination by the Board of Trustees shall be subject to election in the same manner as described in Article VI, Sections 1 and 2.

SECTION 5. Vacancies in the Board of Trustees, except as to presidential members and the Executive Director shall be filled for the unexpired term by the Board of Trustees at any regular or special meeting thereof, by vote of a majority of the Trustees present.

SECTION 6. The Annual Meeting of the Academy also shall be the Annual Meeting of the Board of Trustees. Regular meetings of the Board of Trustees shall be held at the official headquarters of the Academy on a date and at a time designated by the Board of Trustees. Other meetings may be called upon order by the Chairman of the Board of Trustees or at the written request of a majority of the members of the Committee on Organization and Rules.

SECTION 7. For the purpose of conducting business, at least five members of the Board of Trustees present and eligible to vote shall constitute a quorum.

Article IV

SCIENTIFIC COUNCIL

SECTION 1. The Scientific Council shall be composed of the elected Officers of the Academy, six elected Councilors and the elected Chairman of each established Section of the Academy.

The President, a President-elect, two Vice-Presidents, a Corresponding Secretary, and a Recording Secretary of the Academy shall be the elected Officers of the Scientific Council.

SECTION 2. The Scientific Council shall manage and control the scientific activities of the Academy. It shall establish, divide, sub-divide, or discontinue Sections and Divisions of the Academy and it shall define their duties and privileges; it shall call all stated meetings of the Academy except those of the Board of Trustees; and fill, for the unexpired term, any vacancy in the Scientific Council or among the Past Presidents serving on the Board of Trustees, except as provided for in Sections 5 and 6 of this Article. For the purpose of doing business, nine members of the Scientific Council present and eligible to vote shall constitute a quorum.

SECTION 3. The President shall serve for a term of only one year and shall be a member of the Board of Trustees during his term as President. Upon completion of his term of office he shall be a Member of the Board of Trustees and of the Scientific Council as a Past President of the Academy for a period not to exceed two consecutive years. The President-elect shall serve for the term of one year and shall then become President. The Vice-Presidents and Chairmen of Sections shall serve in their respective positions for one year and shall be eligible for re-election for the next ensuing year only. The Recording Secretary and the Corresponding Secretary shall serve for the term of one year and shall be eligible to reelection without limitation. The President, President-elect, Vice-Presidents and Secretaries shall be Fellows.

SECTION 4. The terms of office of elected Councilors shall be three years. The Councilors shall be so grouped that two shall be elected and two retired each year. Elected Councilors shall not be eligible to reelection to that position until after the expiration of one year.

SECTION 5. In the event that the office of the President shall become vacant, that Vice-President who is senior in order of Fellowship shall serve for the unexpired term.

SECTION 6. Should the office of the President-elect become vacant, it shall not be filled for the unexpired term. A President shall be elected in accordance with the provisions for the election of officers defined in Article VI, Section 1.

Article V

RESIGNATIONS BY NON-ATTENDANCE

SECTION 1. Any Trustee or Officer or Member of the Scientific Council who shall fail to attend three consecutive meetings of their respective body, without being excused by such body, shall be deemed to have resigned therefrom.

Article VI

ELECTIONS

SECTION 1. The election of the Members of the Board of Trustees, and of the Officers and Members of the Scientific Council shall be by the mail ballot to the Active Membership; and the candidates receiving the greatest number of votes for the respective positions shall be *ipso facto* duly elected, and shall take office on the first day of January following.

SECTION 1. The announcement of the election of the Members of the Board of Trustees and the Officers and other Members of the Scientific Council shall be made at the Annual Meeting of the Academy which shall be held on the first Wednesday in December, or on such other date in December specifically designated by vote of the Scientific Council.

Article VII

COMMITTEE ON ORGANIZATION AND RULES

SECTION 1. This Committee shall consist of three Members appointed by the Board of Trustees, three Members appointed by the Scientific Council, the President and the Executive Director. Five Members of the Committee shall constitute a quorum.

This Committee shall be appointed in January of each year and, at its initial meeting to be held in that month, it shall appoint its Chairman from its own membership.

SECTION 2. This Committee shall serve as a liaison Committee between the Board of Trustees and the Scientific Council to consider and recommend to the appropriate body of the Academy measures, for the best interests of the Academy, for reconciling or removing inconsistencies between and among the acts of the Academy, the Board of Trustees and the Scientific Council.

SECTION 3. The duties and powers of this Committee shall be:

(a) To consider and report from time to time to the Board of Trustees and to the Officers of the Academy either upon its own initiative or by reference from the Board of Trustees or from the Scientific Council on proposed revisions or amendments of the Charter, of the Constitution, and of the Bylaws.

(b) To provide needed information for the Board of Trustees or for the Scientific Council on matters relating to the History of the Academy, its Charter, Constitution, Bylaws, acts of the Annual and stated meetings of the Academy, and of the Board of Trustees or of the Scientific Council, Committees, and Officers.

(c) To interpret for the Board of Trustees and the Scientific Council, the Charter, Constitution, Bylaws, the acts of the Annual or stated meetings of the Academy and acts of the Board of Trustees and of the Scientific Council.

(d) To recommend to the Board of Trustees and Officers of the Academy, the requirements for and the privileges and obligations of the several classes of Membership.

Article VIII

EXECUTIVE DIRECTOR

SECTION 1. An Executive Director shall be appointed by the Board of Trustees.

Article IX

AFFILIATED SOCIETIES

SECTION 1. The Scientific Council shall have the power to establish or discontinue affiliation with The New York Academy of Sciences of scientific societies or associations organized for the study of any branch of science.

Article X

QUORUM

SECTION 1. Fifty Active Members shall form a quorum at any meeting of the Academy at which business is transacted.

Article XI

BYLAWS

SECTION 1. The Board of Trustees and the Scientific Council faculty may establish such Bylaws, not in conflict with the Constitution, as may be necessary and proper for the government of the Academy. These may be amended from time to time by proposal of the Committee on Organization and Rules. To become effective such amendments must be ratified by both the Board of Trustees and the Scientific Council as therein provided.

Article XII

AMENDMENTS

SECTION 1. This Constitution may be amended by a vote of not less than two-thirds of the Active Members voting. The Recording Secretary shall send a ballot and a copy of the proposed amendment, as approved

by the Board of Trustees and the Scientific Council, to each Active Member entitled to vote at least four weeks before the time set by the Scientific Council for the balloting to close.

BYLAWS

As adopted by the Scientific Council, November 22, 1959

Article I

OFFICERS

SECTION 1. President. The President shall be the chief executive officer of the Academy. It shall be his duty to preside at the business and special meetings of the Academy and at the meetings of the Scientific Council. He shall have the power to call meetings of the Scientific Council and shall be a member of all Standing Committees. He shall sign all certificates of election to Membership.

SECTION 2. President-Elect. The President-elect shall be invited to attend the meetings of all Committees of the Scientific Council to which he has not been appointed as a member, but he shall not have the power to vote.

SECTION 3. Vice-Presidents. In the temporary absence of the President, that Vice-President who is senior in order of Fellowship shall act as the presiding officer.

SECTION 4. Corresponding Secretary. The Corresponding Secretary shall keep a corrected list of the Honorary Life Members, their titles and addresses, and shall conduct all correspondence concerning such Membership. He shall make a report at the Annual Meeting. He shall be a member of the Committee for the Nomination of Fellows and Honorary Life Members.

SECTION 5. Recording Secretary. The Recording Secretary shall keep the minutes of the meetings of the Academy and Scientific Council; have access to all records of the Academy and to its Corporate Seal, which he shall affix and attest as directed by the Board of Trustees or by the Scientific Council; he shall sign all certificates of election to Membership; shall notify members of the Scientific Council of the dates of the meetings thereof; and shall lay before the Scientific Council all matters requiring consideration by the Scientific Council that have come to his attention.

SECTION 6. Treasurer. The Treasurer shall collect and receive all moneys due to the Academy and shall have custody of the funds of the Academy. All moneys received shall be deposited by him in the corporate name of the Academy in banks or trust companies designated by the Board of Trustees. All funds shall be subject to the drafts of the Treasurer as authorized by the Board of Trustees. He shall make disbursements for debts against the Academy, on the order of the Board of Trustees for

their discharge, and shall keep a full accounting of the Academy's financial transactions.

The Treasurer, any one member of the Finance Committee, or any one of the two Agents specifically chosen by reason of being employed on the staff of the Academy and vested with the power of attorney for the stated purpose, shall have the power to sign checks, as authorized by the Board of Trustees. The Treasurer and all other persons who have the power to sign checks shall be bonded.

The Treasurer shall report to the Board of Trustees, at each regular meeting thereof, the financial condition of the Academy. He shall submit to the Academy, at each Annual Meeting, a statement of the financial operations for the preceding fiscal year, and a balance sheet as at the close of such fiscal year.

SECTION 7. Executive Director. The Executive Director shall be the operating executive of the Academy, responsible directly to the Board of Trustees, and shall be charged with conducting all administrative activities not otherwise provided for in the Bylaws. He shall be a member and secretary of all Standing Committees of the Board of Trustees and of the Scientific Council, and shall have discretionary power to delegate a representative in his stead.

The principal duties of the Executive Director shall include custodianship of the Academy buildings and property, except as otherwise provided for; general office administration; hiring and discharging of the employed staff; official charge of the mechanics of conducting meetings, conferences, receptions, and similar functions of the Academy; handling all correspondence relative to the Academy business that is addressed to the Academy office; conducting all business relative to the sales and distribution of the Academy publications; and custodianship of the stock of such publications.

The Executive Director shall be assistant to the Treasurer, performing such duties as the Treasurer may delegate to him, including the receipt of payments for dues from all Members and the keeping of accounts relative to the same.

The Executive Director shall be assistant to the Recording Secretary, performing such duties as the Recording Secretary may delegate to him; shall perform such functions as keeping a corrected list of the Active Members and Fellows; and mail notices of the Academy meetings to its Members, notifying Members and Fellows of their election and members of all Committees of their appointment. He shall also be charged with soliciting new members and mailing notices for renewal of Membership.

Article II

BOARD OF TRUSTEES

SECTION 1. Meetings. The Board of Trustees shall hold a meeting in January of each year and at least three other meetings in each year upon such dates as it shall determine. The Chairman of the Board of Trustees shall preside at all meetings of the Board but in case of death, absence, resignation or disability of the Chairman, the President of the Academy shall perform the duties and exercise the powers of the Chairman until his return or until a successor is appointed.

SECTION 2. Committees. The Standing Committees of the Board of Trustees shall be a Finance Committee and a Nominating Committee and such other Committees as the Board of Trustees may establish.

The Board of Trustees at its meeting in January of each year shall appoint the members of the Standing Committees who shall serve for one year, or until their successors are appointed.

Special Committees authorized by the Board of Trustees shall serve for such periods as shall be designated by the Board of Trustees, but all Special Committees shall automatically terminate on the first meeting of the Board of Trustees in January of each year, unless continued by the Board of Trustees at said meeting.

Article III

COMMITTEES OF THE BOARD OF TRUSTEES

SECTION 1. Finance Committee. This Committee shall consist of three Trustees. Two members of this Committee shall constitute a quorum.

The Finance Committee shall keep the investments of the Academy under constant scrutiny, and shall have the power to order the purchase or sale of securities. The Chairman of the Board of Trustees, the Treasurer and the Executive Director shall have the privilege of attending all meetings of the Finance Committee, but shall not have the power to vote. All transfers and assignments of the securities registered in the name of the Academy shall be executed under the Seal of the Academy by the Treasurer, over his signature or, in his absence, by the President or the Chairman of the Finance Committee, together with the Recording Secretary. The Chairman of the Finance Committee shall report to the Board of Trustees at the next regular meeting thereof all purchases and sales of securities and investments made.

The Board of Trustees may, however, at any time, direct the sale or retention of any securities and investments held by the Academy, or

direct the reinvestment of any proceeds of sale or investment of other funds of the Academy available for investment in such securities or investments as it may specify.

The Finance Committee shall also act as an Auditing Committee and shall cause the accounts of the Treasurer and any other accounts of the Academy to be audited and certified annually, or more often as it deems advisable, by a certified public accountant of its selection. It shall examine the annual statement of the Treasurer before it is submitted to the Academy at its Annual Meeting and shall annually, or more often as it deems advisable, examine and verify the securities and other investments belonging to the Academy and, for such purpose, shall have access to securities in the manner and under the conditions prescribed by the Board of Trustees.

The Finance Committee shall study the Annual Budget, as prepared by the Executive Director, and shall make appropriate recommendation to the Board of Trustees for approval not later than September of each year.

In the absence of the Treasurer, any one member of the Finance Committee, or any one of the two Agents specifically chosen for this purpose, shall have the power to sign checks, on authorization by the Board of Trustees.

The members of the Finance Committee shall be bonded.

SECTION 2. Nominating Committee. This Committee, composed of three Trustees and the Chairman of the Board and the Executive Director, *ex officio*, shall consider and propose for consideration of nomination by the Board of Trustees not later than September of each year the list of candidates to succeed the outgoing class of Trustees. Upon nomination by the Board of Trustees, the list of such candidates shall be submitted to the Recording Secretary for inclusion on the Official Ballot as described in Article V, Section 2 of these Bylaws.

Article IV

SCIENTIFIC COUNCIL

SECTION 1. Meetings. The Scientific Council shall hold meetings upon the fourth Thursday of the months of January, March, May and October and at such other stated times as it may decide upon, or at the call of the President.

SECTION 2. Officers. The President, President-elect, Vice-Presidents, Corresponding Secretary, and Recording Secretary of the Academy shall hold the same offices in the Scientific Council.

SECTION 3. Committees. (a) The Standing Committees of the Scientific Council shall be: an Executive Committee; an Educational Advisory Committee; a Conference Organization Committee; a Fellows and Honorary

Life Members Committee; a Nominating Committee; a Committee on Publications and Awards; and a Committee on Sectional Activities.

(b) Special Committees authorized by the Scientific Council shall serve for such periods as shall be determined by the Scientific Council, but all Special Committees shall automatically terminate on the first meeting of the Scientific Council in January of each year, unless continued by the Scientific Council at said meeting.

Article V

PROCEDURE FOR NOMINATIONS AND ELECTIONS

SECTION 1. Suggestions by the Members for Nominations. Suggestions for nominations of Officers of the Academy and Members of the Board of Trustees and of the Scientific Council may be sent in writing by any Active Member of the Academy, addressed to the Recording Secretary, with the name of the Member offering such suggestion. To be considered, such suggestions must be received not later than September first of each year.

SECTION 2. Preparation of the Official Ballot and Method of Balloting.
(a) The Board of Trustees shall submit its list of nominations to the Recording Secretary not later than October first of each year for inclusion in the Official Ballot.

(b) The Nominating Committee of the Scientific Council and the Committee on Sectional Activities shall report to the Scientific Council at its meeting in October, and the Scientific Council shall then prepare and submit to the Recording Secretary a list of nominations for inclusion on the Official Ballot.

(c) The Official Ballot shall bear the names of the candidates for the Board of Trustees, at least one name nominated by the Scientific Council for each office, and with a blank space for "write in" if the voter so desires.

(d) This Official Ballot shall be mailed by the Recording Secretary to each Active Member in good standing not later than November first of each year and, to be valid, it must be returned to and received in the Academy office not later than November thirtieth of each year.

(e) The Committee on Organization and Rules shall serve as Tellers. The Committee shall receive and count the valid ballots that have been returned and shall present a signed report of the results of the voting at the Annual Meeting of the Academy.

Article VI

ELIGIBILITY FOR MEMBERSHIP

SECTION 1. Annual Active Members. Persons of scientific training, having been at any time engaged in scientific work or otherwise in the advancement of science, shall be eligible for Active Membership when nominated in writing to the Scientific Council by two Members who are qualified to do so by right of full Membership privileges. If approved by the Scientific Council, they may be elected by the unanimous vote of the Councilors present at the meeting at which their names are presented.

SECTION 2. Sustaining Members. Persons of scientific training or attainments, or interested in the furtherance of science, shall be eligible for Sustaining Membership when nominated in writing to the Scientific Council by two Members who are qualified to do so by right of full Membership privileges. If approved by the Scientific Council, they may be elected by the unanimous vote of the Councilors present at the meeting at which their names are presented.

SECTION 3. Student Members. Graduate students and such undergraduates matriculating in recognized universities and colleges within the Metropolitan area may be elected to Student Membership for a period not to exceed five years in the manner prescribed for Annual Active Members, provided each candidate for Student Membership shall be recommended by two professors who are acquainted with the scientific work of such candidate.

At any time subsequent to their election, graduate students may apply for and, upon approval of the Scientific Council, assume the full privileges and responsibilities of Active Members.

SECTION 4. Corporation Members. Any corporation or association interested in the advancement of science may be nominated and elected by the Scientific Council to Corporation Membership. Each Corporation Member shall have the privilege of designating three representatives for attendance at all stated meetings of the Academy in the manner and under such conditions as may be prescribed by the Scientific Council.

SECTION 5. Patrons. Any person eligible for Membership under Sections 1 or 2 of this Article and who shall contribute the sum of \$1,000 to the Academy shall, upon election by the Scientific Council, be entitled to the designation Patron and to the privileges of an Active Member. Patrons shall be exempt from payment of dues.

SECTION 6. Benefactors. Any person eligible for Membership under Sections 1 or 2 of this Article and who shall contribute the sum of \$5,000 or more to the Academy shall, upon election by the Scientific Council, be entitled to the designation of Benefactor and to the privileges of an Active Member. Benefactors shall be exempt from payment of dues.

SECTION 7. Life Members. Any person eligible for Membership under Sections 1 or 2 of this Article who shall contribute at one time the sum of \$300 shall, upon election by the Scientific Council, be entitled to the designation Life Member and to all the privileges of an Active Member for life. Life Members shall be exempt from payment of dues.

Any Sustaining Member who has paid annual dues for twenty-five years or more may, upon written request to the Scientific Council, be made a Life Member and be exempt from any further payment of dues.

SECTION 8. Gold Card Memberships. Any person eligible for election to this class of Membership must be recognized for distinguished achievement in fostering the development of science.

Nomination of a candidate to this class of Membership shall be made in writing to the Recording Secretary by six voting Members in good standing, at least three of whom shall be members of the Scientific Council.

The Recording Secretary shall then refer such proposals received to the Committee on Fellows and Honorary Life Members for study and recommendation to the Scientific Council.

Such a candidate may be elected for life by a vote of not less than three-fourths of the Councilors present at the meeting at which his name is presented.

Upon election to this Class, such Member shall be presented with a Gold Membership Card in permanent recognition of the distinction conferred.

SECTION 9. Termination of Membership for Cause. The Scientific Council is empowered to censure any Member or suspend or terminate his Membership for violation of the Constitution or Bylaws or for any offense deemed sufficient for such action, provided that not less than thirty days' notice, giving the offense charged, shall be sent to such Member and provided that he shall, if he so requests, receive the opportunity to appear before the Scientific Council in his own defense.

Article VII

ANNUAL DUES

SECTION 1. Dues. Each Sustaining Member shall pay such annual dues as the Board of Trustees shall determine, and such annual dues shall be payable in advance on the second day of each January.

Each Annual Active Member shall pay such annual dues as the Board of Trustees shall determine, and such annual dues shall be payable in advance on the second day of each January.

Each Student Member shall pay such annual dues as the Board of Trustees shall determine, and such annual dues shall be payable in advance on the second day of each January.

Each Corporation Member shall pay such annual dues as the Board of Trustees shall determine, and such annual dues shall be payable in advance on the second day of each January.

SECTION 2. Members in Arrears. Any Member whose dues for the year shall remain unpaid on September first of each year shall be deemed not in good standing and if such Member shall neglect or refuse to pay the same within three months after notification of such delinquency by the Treasurer, his Membership may be terminated by vote of the Scientific Council. Upon payment of his arrears, however, such person may be restored to Membership or Fellowship by vote of the Scientific Council.

SECTION 3. Renewal of Membership. Any Active Member who shall resign while in good standing may be restored by vote of the Scientific Council to Active Membership or Fellowship at any time upon application.

Article VIII

COMMITTEES OF THE SCIENTIFIC COUNCIL

SECTION 1. Executive Committee. This Committee shall consist of the President, the President-elect, the two Vice-Presidents, the Corresponding Secretary, the Recording Secretary, and the Executive Director. Four members of the Committee shall constitute a quorum.

In the interim between meetings of the Scientific Council, the Executive Committee shall manage and control the scientific activities of the Academy, exercising all the powers of the Scientific Council not specifically delegated to other Committees and not inconsistent with the provisions of the Constitution and the Bylaws.

Within the first week of January, the President shall appoint each Standing Committee of the Scientific Council to serve until the end of the calendar year. The President is authorized to fill by appointment any vacancies that may occur in the membership of any Standing Committees of the Scientific Council.

The Executive Committee shall study matters that require consideration by the Scientific Council and shall make appropriate recommendation to the Scientific Council.

A regular meeting of the Executive Committee shall be held in February, April, June, and November at the call of the President.

A special meeting of the Executive Committee for the consideration of urgent matters may be called by the President at any time. A special meeting of the Executive Committee shall be called by the President or the Recording Secretary on the written request of three members of the Committee.

SECTION 2. Conference Organization Committee. This Committee shall consist of five appointed members of the Scientific Council, four appointed Chairmen of Divisions, the President and the Executive Director. Five members of the Committee shall constitute a quorum.

This Committee shall study the suitability and timeliness of subjects proposed for conferences, with a view to the maintenance of the highest standards of scientific impartiality and breadth.

Regular meetings of this Committee shall be held once a month during the Academic year, and at such other times as the Chairman shall determine.

The proponents of conferences and visitors or advisers to the Committee shall be heard in open session.

The business of the Conference Organization Committee shall be conducted and all decisions made in executive session. Such discussions and decisions shall be held as strictly confidential.

SECTION 3. Educational Advisory Committee. This Committee shall consist of four appointed members, the President, the President-elect, and the Executive Director, with power to add other members or consultants. Four members of the Committee shall constitute a quorum.

This Committee shall have the power to consult experts in the various fields of science, from time to time.

The duties of this Committee shall be:

(a) To advise and assist accredited educational groups, upon request, on academic problems pertaining to science education, especially at the secondary school level.

(b) To report to the Scientific Council, from time to time, on progress made in the furtherance of science education.

SECTION 4. Committee on Fellows and Honorary Life Members. This Committee shall consist of five appointed members of the Scientific Council, of whom four shall be Chairmen of the Sections, the President, the Executive Director, the Corresponding Secretary, who shall be Chairman of the Committee, and the Chairman of each of the Divisions. Five members of the Committee shall constitute a quorum.

This Committee shall consider all suggestions for nominations to Fellowship and Honorary Life Membership sent in writing by any Active Member of the Academy to the Recording Secretary, with the name of the proposer. These suggestions must be received not later than September first of each year.

This Committee shall study for recommendation of the Scientific Council proposals for Gold Card Membership, received by the Recording Secretary, as prescribed in Article VI, Section 8 of the Bylaws.

To be eligible for Fellowship, an Active Member must have attained outstanding recognition for scientific achievement or for the promotion of science, and shall have been an Active Member for at least one year.

Election to the class of Honorary Life Membership shall be restricted to distinguished foreign scientists.

This Committee shall propose to the Scientific Council candidates for nomination to Fellowship and Honorary Life Membership and the names of such candidates shall be presented at the October meeting of the Scientific Council. Those names nominated by the Scientific Council shall then be balloted for at the Annual Meeting.

SECTION 5. Nominating Committee. This Committee shall consist of six appointed members, the President, and the Executive Director. Four members of this Committee shall constitute a quorum.

This Committee shall meet in the months of May and September of each year, and at such other times as the Chairman shall determine, for the purpose of preparing the list of candidates for the Offices and Councilors of the Scientific Council. It shall submit to the Scientific Council such proposed list of candidates, as prescribed in Article IV, Section 2 of the Bylaws.

The Nominating Committee shall cause to be inserted in each April issue of the *Transactions* a notice to the Active members, quoting Article V, Section 1 of the Bylaws.

SECTION 6. Committee on Publication and Awards. This Committee shall consist of five appointed members, the President and the Executive Director. Four members of this Committee shall constitute a quorum.

This Committee shall recommend action to the Scientific Council on manuscripts of papers submitted for publication by the Academy that have not been presented at any of its meetings. It may make recommendation to the Scientific Council on the format and policy of publication.

This Committee shall act as judges of all papers entered in competition for awards and, at its discretion, may consult experts in various fields of science regarding the competing papers.

It shall determine the conditions of competition, within the limits set by the donors of the awards, as approved by the Scientific Council, and shall publish them in the *Transactions* and by other convenient methods.

The Chairman of this Committee shall report to the Academy at each Annual Meeting on the status of the publication schedule and shall announce the recipients of the awards for that year and announce those awards to be offered in the next succeeding year.

SECTION 8. Committee on Section Activities. This Committee shall consist of a Chairman, who previously shall have served at least one term as Chairman of a Section, four other appointed Members not currently serving as Chairmen of Sections, the President, and the Executive Director. Four members of the Committee shall constitute a quorum. A regular meeting of this Committee shall be held in each of the months of January, March, May, and September, and at such other times as the Chairman shall determine.

The duties of this Committee shall be:

(a) To consider and propose for nomination by the Scientific Council at its October meeting, the Chairman and Vice-Chairman for each of the established Sections and Divisions of the Academy. In the performance of these duties it shall consult the Officer of the Sections and of the Divisions and it may consult experts in the various fields of science.

(b) To consider and recommend to the Scientific Council, either upon its own initiative or by reference from the Scientific Council, all matters concerning the maintenance of high standards of performance and to that end to consult as it deems necessary with the Officers of the established Sections and the Divisions.

(c) To consider and recommend to the Scientific Council the creation and organization of additional Sections and Divisions of the Academy or the combination or abolishment of existing Sections or Divisions of the Academy.

(d) To consider and recommend to the Scientific Council the joining or affiliation with the Academy of other scientific organizations and federations.

Article IX

SECTIONS AND DIVISIONS

SECTION 1. Organizations.

(a) Each Section and Division shall have a Chairman and a Vice-Chairman. The Chairman or, in his absence, the Vice-Chairman, shall be responsible for the successful functioning of the Section or Division, and shall have charge of its meetings. These Officers shall be responsible for the selection of programs, sufficiently diversified to cover broadly the field represented by the Section or Division, and the maintenance of a standard of excellence in conformity with the ideals of the Academy.

(b) The Chairman, or in his absence, the Vice-Chairman, shall preside at all meetings of the Section or Division. Both the Chairman and the Vice-Chairman shall attend a meeting of all Chairmen and Vice-Chairmen of Sections and Divisions, which shall be called the second week of December each year by the Chairman of the Committee on Sectional Activities. At this meeting the Officers of each Section and Division shall present plans for all Section and Division meetings, including the provisions for the conduct of the meetings, in accordance with the regulations established by the Scientific Council.

SECTION 2. Meetings.

(a) *Stated Meetings.* Each Section and Division shall hold one stated meeting each month, on dates authorized by the Scientific Council, from October first to May thirty-first, inclusive, for the presentation and discussion of scientific papers.

(b) *Special Meetings.* Special meetings for the presentation of additional scientific programs may be arranged by the Chairman of any Section or Division and the Executive Director.

SECTION 3. Recommendations for Nominations.

The Chairman of each Section and Division shall submit to the Chairman of the Committee on Sectional Activities his recommendation of the choice of at least two persons for each of the respective Officers of his Section or Division. To be considered, such recommendations must be received by the Chairman of the Committee on Sectional Activities not later than May first of each year, but such recommendations shall not be binding upon the decisions of the Committee on Sectional Activities.

Article X

PUBLICATIONS

SECTION 1. Established Publications. The established publications of the Academy shall be the Monthly Program, the Annals, the Special Publications, the *Transactions*, the Scientific Survey of Porto Rico and the Virgin Islands, and the Memoirs. These shall be issued under the authority and supervision of the Scientific Council, with the Publication Committee acting in an advisory capacity.

SECTION 2. Distribution of Publications. Publications of the Academy shall be distributed upon such terms as the Scientific Council shall direct.

Article XI

MEETINGS

SECTION 1. Annual Meeting of the Academy. The Annual Meeting shall be held each December on a date set by the Scientific Council and notice shall be sent to each Active Member not less than two weeks before the meeting.

At the May meeting of the Scientific Council, the President shall propose a program for the Annual Meeting of the Academy and, on approval by the Scientific Council, the Executive Director shall make the necessary arrangements.

SECTION 2. Special Meetings. A special meeting of the Academy may be held by order of the Scientific Council, provided two weeks' notice is sent to each Active Member stating the object of such meeting.

Article XII

ORDER OF BUSINESS

SECTION 1. Annual Meetings. The following shall be the order of procedure at Annual Meetings:

- (a) Annual Report of the Board of Trustees, including the Report of the Treasurer.
- (b) Annual Reports of the Corresponding Secretary, Recording Secretary, and the Chairman of the Publication Committee.
- (c) Election of Fellows and Honorary Life Members.
- (d) Report of the Tellers on the election of Trustees to the Board of Trustees, Officers and other Members of the Scientific Council.
- (e) Address of the retiring President.

Article XIII

GENERAL PROVISIONS

SECTION 1. Financial Obligations. No financial obligations shall be incurred on behalf of the Academy by any Officer or Member unless authorized by the Board of Trustees.

SECTION 2. Bills. All bills submitted to the Board of Trustees must be certified as to their correctness by the Officers incurring them.

Article XIV

STANDING RULES

SECTION 1. The Board of Trustees and the Scientific Council, each may establish standing rules to meet special or temporary situations and may suspend any of their own standing rules for the same purpose.

Article XV

AMENDMENTS

SECTION 1. These Bylaws may be amended after study and recommendation by the Committee on Organization and Rules, provided that such proposed amendment is adopted by a two-thirds vote of the members present at a meeting, each, of the Board of Trustees and of the Scientific Council held within ninety days after a copy of such proposed amendment is set forth in full in the notice of such meetings.

Article XVI

PARLIAMENTARY AUTHORITY

The rules contained in Robert's *Rules of Order*, current revised edition, shall govern the actions of The New York Academy of Sciences in all cases to which they are applicable and in which they are not inconsistent with the Constitution and the Bylaws of the Academy.

MONOGRAPHIC PUBLICATIONS
OF
THE NEW YORK ACADEMY OF SCIENCES

(LYCEUM OF NATURAL HISTORY, 1817-1876)

(1) The ANNALS (octavo series), established in 1823, contain the scientific contributions and reports of researches, together with the records of meetings of the Academy. The articles that comprise each volume are printed separately, each in its own cover, and are distributed immediately upon publication. The prices of the separate articles depend upon their length and the number of illustrations, and may be ascertained upon application to the Executive Director of the Academy.

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Subscriptions and inquiries concerning current and back numbers of any of the publications of the Academy should be addressed to

EXECUTIVE DIRECTOR

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